ENVIRONMENTAL CHEMISTS

Date of Report: November 13, 1995 Date Received: November 8, 1995

Project: Metro Self Monitor, PO #M51276 Date Samples Extracted: November 9, 1995 Date Extracts Analyzed: November 9, 1995

RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE FOR TOTAL CHROMIUM, COPPER, NICKEL AND ZINC Samples Processed Using Method 3005

Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	<u>Nickel</u>	<u>Zinc</u>
M51276	1.1	0.61	1.0	0.05
Method Blank	< 0.05	< 0.05	< 0.05	<0.05

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Date of Report: November 13, 1995 Date Received: November 8, 1995

Project: Metro Self Monitor, PO #M51276

QUALITY ASSURANCE RESULTS FOR TOTAL CHROMIUM, COPPER, NICKEL AND ZINC Samples Processed Using Method 3005

Laboratory Code: KJ63449DU

Analyte:	Reporting Units		Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
rmaryte.	Unis	AAT.	Result	ntesan	Difference	Cinena
Chromiun	n mg/L (ppm)		1.1	1.3	17	0-20
Copper	mg/L (ppm)		0.61	0.62	2	0-20
Nickel	mg/L (ppm)		1.0	1.1	10	0-20
Zinc	mg/L (ppm)		0.05	0.05	0	0-20

Laboratory Code: KJ63449MS/KJ63449MD

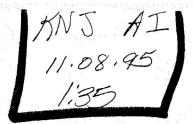
	Reporting	Spike	Sample	% I	Recovery	Acceptance	Relative Percent
Analyte:	Units	Level	Result	MS	MSD	Criteria	Difference
Chromium	mg/L (ppm)	5	1.1	94	96	80-120	2
Copper	mg/L (ppm)	5	0.61	96	95	80-120	1
Nickel	mg/L (ppm)	10	1.0	95	95	80-120	0
Zinc	mg/L (ppm)	5	0.05	98	98	80-120	0

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS	Acceptance Criteria
ATT NALVY	Arabilian			
Chromium	mg/L (ppm)	5	102	80-120
Copper	mg/L (ppm)	5	101	80-120
Nickel	mg/L (ppm)	10	102	80-120
Zinc	mg/L (ppm)	5	102	80-120

FRIEDMAN, & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

SAMPLE CHAIN OF CUSTODY



Send Report To: ALAS L	AN Copper	Work	r spin	Contac	GERAL	O Thom	P& 2
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FORMS/COC

09/19/94

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

November 13, 1995

Gerry Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on November 8, 1995 from your Metro Self Monitor, PO #M51276 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

Chemis

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Enclosures

FAX: 382-7335

ACU1113R.DOC

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

November 13, 1995

INVOICE # 95ACU1113-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M51276: Results of testing requested by Gerry Thompson, Project Leader for material submitted on November 8, 1995.

1 process water sample analyzed for Total	
Chromium, Copper, Nickel, Zinc @ \$65 per sample	\$ 65.00
	BINNEY BURN
Amount Due	\$ 65.00